

10/542408

1/13 JC20 Rec'd PCT/PTO 1 5 JUL 2005

SEQUENCE LISTING

<110> Takeda Pharmaceutical Company Limited

<120> Novel Screening Method

<130> G05-0036

<150> JP 2003-010001

<151> 2003-01-17

<150> JP 2003-104540

<151> 2003-04-08

<150> JP 2003-194497

<151> 2003-07-09

<150> JP 2003-329080

<151> 2003-09-19

<150> PCT/JP2004/000248

<151> 2004-01-15

<160> 22

<210> 1

<211> 361

<212> PRT

<213> Homo sapiens

<400> 1

Met Ser Pro Glu Cys Ala Arg Ala Ala Gly Asp Ala Pro Leu Arg Ser

5

10

15

Leu Glu Gln Ala Asn Arg Thr Arg Phe Pro Phe Phe Ser Asp Val Lys

20

25

30

Gly Asp His Arg Leu Val Leu Ala Ala Val Glu Thr Thr Val Leu Val

35	40	45
Leu Ile Phe Ala Val Ser Leu Leu Gly Asn Val Cys Ala	Leu Val Leu	
50	55	60
Val Ala Arg Arg Arg Arg Gly Ala Thr Ala Cys Leu Val	Leu Asn	
65	70	75
Leu Phe Cys Ala Asp Leu Leu Phe Ile Ser Ala Ile Pro	Leu Val Leu	
85	90	95
Ala Val Arg Trp Thr Glu Ala Trp Leu Leu Gly Pro Val	Ala Cys His	
100	105	110
Leu Leu Phe Tyr Val Met Thr Leu Ser Gly Ser Val Thr	Ile Leu Thr	
115	120	125
Leu Ala Ala Val Ser Leu Glu Arg Met Val Cys Ile Val	His Leu Gln	
130	135	140
Arg Gly Val Arg Gly Pro Gly Arg Arg Ala Arg Ala Val	Leu Ala	
145	150	155
Leu Ile Trp Gly Tyr Ser Ala Val Ala Ala Leu Pro Leu	Cys Val Phe	
165	170	175
Phe Arg Val Val Pro Gln Arg Leu Pro Gly Ala Asp Gln	Glu Ile Ser	
180	185	190
Ile Cys Thr Leu Ile Trp Pro Thr Ile Pro Gly Glu Ile	Ser Trp Asp	
195	200	205
Val Ser Phe Val Thr Leu Asn Phe Leu Val Pro Gly Leu	Val Ile Val	
210	215	220
Ile Ser Tyr Ser Lys Ile Leu Gln Ile Thr Lys Ala Ser	Arg Lys Arg	
225	230	235
Leu Thr Val Ser Leu Ala Tyr Ser Glu Ser His Gln Ile	Arg Val Ser	
245	250	255
Gln Gln Asp Phe Arg Leu Phe Arg Thr Leu Phe Leu Leu	Met Val Ser	
260	265	270
Phe Phe Ile Met Trp Ser Pro Ile Ile Ile Thr Ile Leu	Ile Leu	
275	280	285
Ile Gln Asn Phe Lys Gln Asp Leu Val Ile Trp Pro Ser	Leu Phe Phe	
290	295	300
Trp Val Val Ala Phe Thr Phe Ala Asn Ser Ala Leu Asn	Pro Ile Leu	
305	310	315
Tyr Asn Met Thr Leu Cys Arg Asn Glu Trp Lys Lys Ile	Phe Cys Cys	

325	330	335
Phe Trp Phe Pro Glu Lys Gly Ala Ile Leu Thr Asp Thr Ser Val Lys		
340	345	350
Arg Asn Asp Leu Ser Ile Ile Ser Gly		
355	360	

<210> 2

<211> 1083

<212> DNA

<213> Homo sapiens

<400> 2

atgtccctg aatgcgcg	ggcagcggc	gacgcgcct	tgcgcagcct	ggagcaagcc	60
aaccgcaccc	gctttccctt	cttctccgac	gtcaaggcg	accaccggct	120
gcggtgaga	caaccgtgct	ggtgctcatc	tttgcaagt	cgctgctggg	180
gccctggtgc	tggtgtgcg	ccgacgacgc	cgcggcgca	ctgcctgcct	240
ctcttctgcg	cggacactgct	cttcatcagc	gctatccctc	tgggtgctggc	300
actgaggcct	ggctgctggg	ccccgttgcc	tgccacactgc	tcttctacgt	360
agcggcagcg	tcaccatcct	cacgctggcc	gcggtcagcc	tggagcgcatt	420
gtgcacactgc	agcgcggcgt	gcggggcct	ggcggcg	cgcggcagt	480
ctcatctggg	gctattcggc	ggtcggcgct	ctgcctctct	cggtcttctt	540
ccgcaacggc	tccccggcgc	cgaccaggaa	atttcgattt	gcacactgat	600
atttcctggag	agatctcg	ggatgtct	tttgcattt	tgaacttctt	660
ctggtcattt	tgcattt	ctccaaaatt	ttacagatca	caaaggcatc	720
ctcacggtaa	gcctggccta	ctcgagagc	caccagatcc	gcgtgtccca	780
cggctcttcc	gcaccctctt	cctcctcatg	gtctccttct	tcatcatgtg	840
atcatcacca	tcctcctcat	cctgatccag	aacttcaagc	aagacacttgt	900
tccctcttct	tctgggtgg	ggccttcaca	tttgcataatt	cagccctaaa	960
tacaacatga	cactgtgcag	aatgagtg	aagaaaattt	tttgctgttt	1020
aaaaagggag	ccatTTAAC	agacacatct	gtcaaaagaa	atgacttgc	1080
ggc					1083

<210> 3

<211> 361

<212> PRT

<213> Mus musculus

<400> 3

Met Ser Pro Glu Cys Ala Gln Thr	Thr Gly Pro Gly Pro Ser His Thr	
5	10	15
Leu Asp Gln Val Asn Arg Thr His Phe Pro Phe Phe Ser Asp Val Lys		
20	25	30
Gly Asp His Arg Leu Val Leu Ser Val Val Glu Thr Thr Val Leu Gly		
35	40	45
Leu Ile Phe Val Val Ser Leu Leu Gly Asn Val Cys Ala Leu Val Leu		
50	55	60
Val Ala Arg Arg Arg Arg Gly Ala Thr Ala Ser Leu Val Leu Asn		
65	70	75
80		
Leu Phe Cys Ala Asp Leu Leu Phe Thr Ser Ala Ile Pro Leu Val Leu		
85	90	95
Val Val Arg Trp Thr Glu Ala Trp Leu Leu Gly Pro Val Val Cys His		
100	105	110
Leu Leu Phe Tyr Val Met Thr Met Ser Gly Ser Val Thr Ile Leu Thr		
115	120	125
Leu Ala Ala Val Ser Leu Glu Arg Met Val Cys Ile Val Arg Leu Arg		
130	135	140
Arg Gly Leu Ser Gly Pro Gly Arg Arg Thr Gln Ala Ala Leu Leu Ala		
145	150	155
160		
Phe Ile Trp Gly Tyr Ser Ala Leu Ala Ala Leu Pro Leu Cys Ile Leu		
165	170	175
Phe Arg Val Val Pro Gln Arg Leu Pro Gly Gly Asp Gln Glu Ile Pro		
180	185	190
Ile Cys Thr Leu Asp Trp Pro Asn Arg Ile Gly Glu Ile Ser Trp Asp		
195	200	205
Val Phe Phe Val Thr Leu Asn Phe Leu Val Pro Gly Leu Val Ile Val		
210	215	220
Ile Ser Tyr Ser Lys Ile Leu Gln Ile Thr Lys Ala Ser Arg Lys Arg		
225	230	235
240		
Leu Thr Leu Ser Leu Ala Tyr Ser Glu Ser His Gln Ile Arg Val Ser		
245	250	255
Gln Gln Asp Tyr Arg Leu Phe Arg Thr Leu Phe Leu Leu Met Val Ser		
260	265	270

Phe Phe Ile Met Trp Ser Pro Ile Ile Ile Thr Ile Leu Leu Ile Leu
 275 280 285
 Ile Gln Asn Phe Arg Gln Asp Leu Val Ile Trp Pro Ser Leu Phe Phe
 290 295 300
 Trp Val Val Ala Phe Thr Phe Ala Asn Ser Ala Leu Asn Pro Ile Leu
 305 310 315 320
 Tyr Asn Met Ser Leu Phe Arg Asn Glu Trp Arg Lys Ile Phe Cys Cys
 325 330 335
 Phe Phe Phe Pro Glu Lys Gly Ala Ile Phe Thr Asp Thr Ser Val Arg
 340 345 350
 Arg Asn Asp Leu Ser Val Ile Ser Ser
 355 360

<210> 4

<211> 1083

<212> DNA

<213> Mus musculus

<400> 4

atgtccctg agtgtgcaca gacgacgggc cctggccctt cgcacaccct ggaccaagtc 60
 aatcgacccc acttcccttt ctctcggat gtcaagggcg accaccgggtt ggtgttgagc 120
 gtcgtggaga ccaccgttct ggggctcatc tttgtcgctt cactgctggg caacgtgtgt 180
 gctctatgtc tgggtggcgcc cggtcggcgcc cgtggggcgaa cagccagcctt ggtgctcaac 240
 ctcttctgcg cggatttgctt cttcaccaggc gccatccctc tagtgcgtt cgtgcgttgg 300
 actgaggcctt ggctgttggg gcccgtcgcc tgccacactgc tcttctacgtt gatgacaatg 360
 agcggcagcg tcacgatcct cacactggcc gcggtcagcc tggagcgcattt ggtgtgcattt 420
 gtgcgcctcc ggcgcggctt gagcggcccg gggcggcgga ctcaggcgcc actgctggct 480
 ttcatatggg gttactcggc gctcggcgcc ctggccctctt gcatcttgggtt ccgcgtggc 540
 ccgcagcgcc ttcccgccgg ggaccaggaa attccgattt gcacattggaa ttggcccaac 600
 cgcataggag aaatctcatg ggatgtgttt ttgtgactt tgaacttccctt ggtgccggga 660
 ctggtcattt tgatcagtta ctccaaaattt ttacagatca cgaaagcattt gcgaaagagg 720
 cttacgctga gcttggcata ctctgagagc caccagatcc gagtgccttcc acaagactac 780
 cgactcttcc gcacgctctt cctgctcatg gttccctctt tcatcatgtt gagtcccattt 840
 atcatcacca tcctcctcat cttgatccaa aacttccggc aggacctgggtt catctggcca 900
 tccctttct tctgggtgggtt ggccttcacg tttgccaactt ctgccttaaa cccctatactg 960
 tacaacatgtt cgctgttcag gaacgaatgg aggaagattt tttgctgtt cttttttcca 1020

gagaaggag ccattttac agacacgtct gtcaggcgaa atgacttgtc ttttatttcc 1080
agc 1083

<210> 5
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 5
gctgtggcat gcttttaaac 20

<210> 6
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 6
cgctgtggat gtctatttgc 20

<210> 7
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 7
agttcatttc cagtagccctc catcagtggc 30

Leu Thr Leu Ser Leu Ala Tyr Ser Glu Ser His Gln Ile Arg Val Ser
 245 250 255
 Gln Gln Asp Tyr Arg Leu Phe Arg Thr Leu Phe Leu Leu Met Val Ser
 260 265 270
 Phe Phe Ile Met Trp Ser Pro Ile Ile Ile Thr Ile Leu Leu Ile Leu
 275 280 285
 Ile Gln Asn Phe Arg Gln Asp Leu Val Ile Trp Pro Ser Leu Phe Phe
 290 295 300
 Trp Val Val Ala Phe Thr Phe Ala Asn Ser Ala Leu Asn Pro Ile Leu
 305 310 315 320
 Tyr Asn Met Ser Leu Phe Arg Ser Glu Trp Arg Lys Ile Phe Cys Cys
 325 330 335
 Phe Phe Phe Pro Glu Lys Gly Ala Ile Phe Thr Glu Thr Ser Ile Arg
 340 345 350
 Arg Asn Asp Leu Ser Val Ile Ser Thr
 355 360

<210> 9

<211> 1083

<212> DNA

<213> Rattus norvegicus

<400> 9

atgtccctcg	agtgtgcgca	gacgacgggc	cctggcccct	cgcgcacccc	ggaccaagtc	60
aatgcacccc	acttcccttt	cttctcgat	gtcaaggcgc	accaccggct	ggtgctgagc	120
gtcctggaga	ccaccgttct	gggactcatc	tttgtgtct	cactgctggg	caacgtgtgt	180
gccctggtgc	tggtgtgcg	ccgtcggcgc	cgtggggcga	cagttagctt	ggtgctcaac	240
ctttctgcg	cggatttgct	tttaccaggc	gccatccctc	tagtgcgtgt	ggtgcgctgg	300
actgaagcct	ggctgctggg	gcccgtcgtc	tgccacctgc	tcttctacgt	gatgaccatg	360
agcggcagcg	tcacgatcct	cacgctggcc	gcggtcagcc	tggagcgcatt	ggtgtgcattc	420
gtgcgcctgc	ggcgcggctt	gagcggcccg	ggcggcggga	cgcaggcggc	gctgctggct	480
ttcatatggg	gttactcgcc	gctcgccgcg	ctggcccctt	gcatactgtt	ccgcgtggtc	540
ccgcagcgcc	ttcccgccgg	ggaccaggaa	attccgattt	gcacattgga	ttggcccaac	600
cgcataaggag	aaatctcatg	ggatgtgttt	tttgtgactt	tgaacttcct	ggtaccagga	660
ctggtcattt	tgtcagacta	ctccaagatt	ttacagatca	cgaaagcctc	gccaagagg	720
cttacgctga	gcttggcata	ctccgagagc	caccagatcc	gagtgtccca	gcaggactac	780

cggtctttcc gaacgcttcc cctgctcatg gtttccttct tcatacatgtg gagtcccac 840
atcatcacca tcctcctcat cttgatccag aacttccggc aggacctggg tatctggccg 900
tccctttct tctgggtggg ggccttcacg tttgccaact ccgccttaaa ccccattctg 960
tacaacatgt cgctgttcag gagcgagtgg aggaagattt ttgctgctt cttttccca 1020
gagaagggag ccattttac agaaacgtct atcaggcgaa atgacttgtc tgttatttcc 1080
acc 1083

<210> 10
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 10
gtggtggcct tcacgttt 19

<210> 11
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 11
cgctcctgaa cagcgacat 19

<210> 12
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> probe

<400> 12

caactccgcc ctaaacccca ttctgt 26

<210> 13

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 13

gtcgacatgt cccctgagtg tgcgcatgcg acg 33

<210> 14

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 14

gctagcttag gtggaaataa cagacaagtc att 33

<210> 15

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 15

tccgagtgtc ccaacaagac tac 23

<210> 16
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 16
gactccacat gatgaagaag gaaa 24

<210> 17
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> probe

<400> 17
ccgcacgctc ttccctgctca tg 22

<210> 18
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 18
gtggtgtggcct tcacgtttg 19

<210> 19
<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 19

cgctcctgaa cagcgacat 19

<210> 20

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> probe

<400> 20

caactccgcc ctaaacccca ttctgt 26

<210> 21

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<221> misc_RNA

<222> (20)..(21)

<223> n stands for deoxy thymidine

<400> 21

ggaccaggaa auuccgauun n 21

<210> 22

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<221> misc_RNA

<222> (1)..(2)

<223> n stands for deoxy thymidine

<400> 22

nnccuggucc uuuuaggcua a

21